**Continuous Improvement Plan**

**Date:** January 29, 2025 **Name of Program/Unit: Construction Technology - Safety**

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**Table 1: CIP Outcomes, Measures & Targets Table (focus on at least one for the next two years)**

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| **A. Expected Outcome(s)**  Results expected in this unit  (e.g. Authorization requests will be completed more quickly; Increase client satisfaction with our services) | **B. Measure(s)**  Instrument(s)/process(es) used to measure results  (e.g. survey results, exam questions, etc.)  Include Course Information and Semester in which assessment will occur | **C. Target(s)**  Level of success expected  (e.g. 80% approval rating, 10 day faster request turn-around time, etc.) |
| PLO#1  Students will be able to apply the basic principles of construction safety to mitigate unsafe conditions on construction sites. | In OSHT 2310 – Principles of Safety Engineering, students will be given a final exam that included situational scenarios from construction sites where students will demonstrate the ability to apply basic principles of construction safety to mitigate unsafe conditions at the given sites in the form of multiple-choice questions and short essay questions | 80% of students earning 70% or higher score on final Exam in OSHT 2310 |
| PLO #2 Students will be able to perform accident investigations as they relate to construction activities and sites. | In OSHT 1313 – Accident Prevention, Inspection, & Investigation, students will be given a project where a construction accident is given, and the students will be required to provide the appropriate investigation methods in a written and oral presentation. | 80% of students earning 70% or higher on the accident investigation project in OSHT 1313. |
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**Description of Fields in the Following CIP Tables:**

**A. Outcome(s)** -Results expected in this program (e.g. Students will learn how to compare/contrast conflict and structural functional theories; increase student retention in Nursing Program).

**B. Measure(s)** -Instrument(s)/process(es) used to measure results

(e.g. results of surveys, test item questions 6 & 7 from final exam, end of term retention rates, etc.)

**C. Target(s)** -Degree of success expected (e.g. 80% approval rating, 25 graduates per year, increase retention by 2% etc.).

**D. Action Plan** -Based on analysis, identify actions to be taken to accomplish outcome. What will you do?

**E. Results Summary** - Summarize the information and data collected in year 1.

**F. Findings** - Explain how the information and data has impacted the expected outcome and program success.

**G. Implementation of Findings** – Describe how you have used or will use your findings and analysis of the data to make improvements.

**Table 2. CIP Outcomes 1 & 2 (FOCUS ON AT LEAST 1)**

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| 1. **Outcome #1**   PLO#1 - Students will be able to apply the basic principles of construction safety to mitigate unsafe conditions on construction sites. | |
| 1. **Measure (Outcome #1)**   Students will be given a final exam that included situational scenarios from construction sites where students will demonstrate the ability to apply basic principles of construction safety to mitigate unsafe conditions at the given sites in the form of multiple-choice questions and short essay questions | 1. **Target (Outcome #1)**   80% of students earning 70% or higher score on the final |
| 1. **Action Plan (Outcome #1)**  * Develop and periodically update situational questions that simulate real-world construction site hazards. * Utilize various question formats:   + Multiple-choice questions to measure foundational knowledge.   + Short essay responses to assess critical thinking and application of safety principles. * Ensure exam content aligns with OSHA regulations and current industry standards. | |
| 1. **Results Summary (Outcome #1)**   90.91% of students met or exceeded the target score | |
| 1. **Findings (Outcome #1)**   The course has been offered only twice with an average of 6 students in class, and the available data is insufficient to support recommendations for changes in implementation beyond focusing on increasing enrollment and conducting a reassessment at a later stage. However, if the trend continues to surpass current targets, we will recommend adjusting future expectations to reflect a higher standard of success. | |
| 1. **Implementation of Findings**   Continue monitoring program outcomes and reassess periodically to determine any necessary curriculum enhancements. | |

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| 1. **Outcome #2**   PLO #2 Students will be able to perform accident investigations as they relate to construction activities and sites. | |
| 1. **Measure (Outcome #2)**   Students will be given a project where a construction accident is given, and the students will be required to provide the appropriate investigation methods in a written and oral presentation. | 1. **Target (Outcome #2)**   80% of students earning 70% or higher score on the accident investigation project in OSHT 1313 |
| 1. **Action Plan (Outcome #2)**   **Students will be evaluated on:**   * Assess accident investigation reports based on:   + Accuracy of incident documentation (30%)   + Root cause analysis and recommendations (40%)   + Effectiveness of oral presentation (30%) * Compare results with previous cohorts to identify areas for curriculum enhancement. | |
| 1. **Results Summary (Outcome #2)**   100% of students met or exceeded the target score | |
| 1. **Findings (Outcome #2)**   The course has been offered only twice with an average of 6 students in class, and the available data is insufficient to support recommendations for changes in implementation beyond focusing on increasing enrollment and conducting a reassessment at a later stage. However, if the trend continues to surpass current targets, we will recommend adjusting future expectations to reflect a higher standard of success. | |
| 1. **Implementation of Findings**   Continue monitoring program outcomes and reassess periodically to determine any necessary curriculum enhancements. | |

**Program Assessment Data Report**

**Program:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Terms Data Collected:**

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| Program-Level Learning Outcome- (From Assessment Plan) | Assessment Measure(s) and Where Implemented in Curriculum – (From Assessment Plan) | Targets- Level of Success Expected-(From Assessment Plan) | Assessment Results – (Provide Data in a form related to targeted levels of success to left. Indicate if Targeted level of success was met, partially met, or not met.) |
| PLO #1 Students will be able to apply the basic principles of construction safety to mitigate unsafe conditions on construction sites. | In OSHT 2310 – Principles of Safety Engineering, students will be given a final exam that will include situational scenarios from construction sites where students will demonstrate the ability to apply basic principles of construction safety to mitigate unsafe conditions at the given sites in the form of multiple-choice questions and short essay questions. | 80% of students will make a 70% or better on the final exam in OSHT 2310 | Spring 2023 (2 students): 100% (standards met)  Fall 2024 (9 students): 90.91% (standards met) |
| PLO #2 Students will be able to perform accident investigations as they relate to construction activities and sites. | In OSHT 1313 – Accident Prevention, Inspection, & Investigation, students will be given a project where a construction accident is given, and the students will  be required to provide the appropriate investigation methods in a written and oral presentation. | 80% of students will make a 70% or better on the accident investigation project in OSHT 1313 | Spring 2023 (2 students): 100% (standards met)  Fall 2024 (11 students): 100% (standards met) |
| PLO #3 Students will be able to develop a safety plan for a construction site. | In OSHT 2309 – Safety Program Management, students will be given a project to develop a safety plan for a given construction site/scenario. | 80% of students will make a 70% or better on the safety plan project in OSHT 2309. | Fall 2022 (7 students): 92.86% (standards met)  Spring 2024 (7 students): 100% (standards met) |
| PLO #4 Students will be able to perform risk analysis on specific construction activities as they relate to a construction site. | In OSHT 2337 – Advanced Risk Management, students will be assigned a project to perform risk analyses to the given construction activities/scenarios using one or more safety management systems. Students will be required to prepare a written report and deliver an oral presentation on their findings.  Or if this is intended to be a singular analysis for a single scenario then it might read:  In OSHT 2337 – Advanced Risk Management, students will be assigned a project to perform a risk analysis to the given construction activity/scenario using one or more safety management systems. Students will be required to prepare a written report and deliver an oral presentation on their findings. | 80% of students will make a 70% or better on the risk analysis project in OSHT 2337. | Spring 2024 (7 students): 100% (standards met) |
| PLO #5 Students will be able to demonstrate communication and presentation skills necessary for an entry level position in Construction Safety. | In OSHT 2320 – Safety Training Presentation Techniques, students will be assigned a project to teach/present an assigned construction safety topic to the class. Students will be evaluated on (the factual content presented?) as well as the demonstration of effective oral and written communication skills necessary for an entry level position in construction safety. | 80% of students will make a 70% or better on the Construction Safety teaching/presentation project. | Spring 2024 (6 students): 100% (standards met) |
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